

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/721,298
Source: 1FW9
Date Processed by STIC: 12/27/04

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 12/27/2004

PATENT APPLICATION: US/10/721,298

TIME: 11:33:15

Input Set : A:\SequenceListing.txt

Output Set: N:\CRF4\12272004\J721298.raw

```

3 <110> APPLICANT: Metabasis Therapeutics, Inc.
4   Sun, William
6 <120> TITLE OF INVENTION: Organic Anion Transporter Genes and Proteins
8 <130> FILE REFERENCE: 45198.00022.Div1
10 <140> CURRENT APPLICATION NUMBER: US 10/721298
11 <141> CURRENT FILING DATE: 2003-11-24
13 <150> PRIOR APPLICATION NUMBER: 60/143771
14 <151> PRIOR FILING DATE: 1999-07-12
16 <160> NUMBER OF SEQ ID NOS: 12
18 <170> SOFTWARE: PatentIn version 3.3
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 2121
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapiens
25 <400> SEQUENCE: 1
26 ctgagctgac ctgacccccca aagtgaagga gaagctgcaa gggaaaaggg agggacagat      60
28 cagggagacc ggggaagaag gaggagcagc caaggaggct gctgtcccc cagagagcag      120
30 ctcggaactc gctcccgagg caaccagct gcgaggcaa cggcagtgtc gtcctccag      180
32 cgaaggacag caggcaggca gacagacaga ggtcctggga ctggaaggcc tcagccccca      240
34 gccactgggc tgggcctggc ccaatggcct ttaatgacct cctgcagcag gtggggggtg      300
36 tcggccgctt ccagcagatc caggtcaccc tgggtggctc cccctgtctc ctgatggctt      360
38 ctcaacaac cctgcagaac ttcactgctg ccacccctac ccaccactgc cgcccgctg      420
40 ccgatgccaa cctcagcaag aacggggggc tggaggtctg gctgcccccg gacaggcagg      480
42 ggcagcctga gtctgcctc cgcttcacct ccccgagctg gggactgcc tttctcaatg      540
44 gcacagaagc caatggcaca ggggccacag agccctgcac cgatggctgg atctatgaca      600
46 acagcacctt cccatctacc atcgtgactg agtgggacct tgtgtgctct cacaggcccc      660
48 tacgccagct ggcccagtc ttgtacatgg tgggggtgct gctcggagcc atggtgttcg      720
50 gctaccttgc agacaggcta ggccgcgga aggtactcat cttgaactac ctgcagacag      780
52 ctgtgtcagg gacctgcgca gccttcgcac ccaactccc catctactgc gccttcggc      840
54 tcctctcggg catggctctg gctggcatct ccctcaactg catgacactg aatgtggagt      900
56 ggatgcccac tcacacacgg gcctgcgtgg gcacctgat tggctatgtc tacagcctgg      960
58 gccagttcct cctggctggt gtggcctacg ctgtgcccc ctggcgccac ctgcagctac     1020
60 tggctctctg gcctttttt gccttcttca tctactcctg gttcttcatt gactcgcccc     1080
62 gctggcactc ctctccggg aggetggacc tcacctgag ggcctgcag agagtcgccc     1140
64 ggatcaatgg gaagcgggaa gaaggagcca aattgagtat ggaggtactc cgggccagtc     1200
66 tgcagaagga gctgaccatg ggcaaaggcc aagcatcggc catggagctg ctgcgctgcc     1260
68 ccaccctccg ccaactcttc ctctgcctct ccattgctgt gtttgccact agctttgcat     1320
70 actatgggct ggtcatggac ctgcagggct ttggagtcag catctaccta atccaggatga     1380
72 tctttggtgc tgtggacctg cctgccaaagc ttgtgggctt ccttgtcatc aactccctgg     1440
74 gtgcgcggcc tgcccagatg gctgcaactg tgctggcagg catctgcac ctgctcaatg     1500
76 ggggtgatacc ccaggaccag tcattgtcc gaacctctct tgctgtgctg gggaagggtt     1560
78 gtctggctgc ctcttcaac tgcattctcc tgtatactgg ggaactgtat cccacaatga     1620
80 tccggcagac aggcattggga atgggcagca ccattggccc agtgggcagc atcgtgagcc     1680

```

RAW SEQUENCE LISTING

DATE: 12/27/2004

PATENT APPLICATION: US/10/721,298

TIME: 11:33:15

Input Set : A:\SequenceListing.txt

Output Set: N:\CRF4\12272004\J721298.raw

```

82 cactggtgag catgactgcc gagctctacc cctccatgcc tctcttcac tacggtgctg 1740
84 ttctgtggc cgccagcgt gtcactgtcc cagagaccct gggccagcca ctgccagaca 1800
86 cgggtgcagga cctggagagc aggaaaggga aacagacgcg acagcaacaa gagcaccaga 1860
88 agtatatggt cccactgcag gcctcagcac aagagaagaa tggactctga ggactgagaa 1920
90 ggggccttac agaaccctaa agggaggga ggtcctacag gtctccggcc acccacacaa 1980
92 ggaggaggaa gaggaatgg tgacccaagt gtgggggttg tggttcagga aagcatcttc 2040
94 ccaggggtcc acctcccttt ataaaccca ccagaaccac atcattaaaa ggtttgactg 2100
96 cgcacaaaaa aaaaaaaaaa a
99 <210> SEQ ID NO: 2
100 <211> LENGTH: 1950
101 <212> TYPE: DNA
102 <213> ORGANISM: Homo sapiens
104 <400> SEQUENCE: 2
105 ctgcacctga agcatttggt ggggtgagcag catgggcttt gaggagctgc tggagcaggt 60
107 gggcggtctt gggcccttcc aactgcggaa tgtggcactg ctggccctgc cccgagtgtc 120
109 gctaccactg cacttcctcc tgcccattct cctggctgcc gtgcctgcc accgatgtgc 180
111 cctgccgggt gccctgcca acttcagcca tcaggatgtg tggctggagg cccatcttcc 240
113 ccgggagcct gatggcacgc tcagctcctg cctccgcttt gcctatcccc aggtctctcc 300
115 caacaccacg ttgggggaag aaaggcagag ccgtggggag ctggaggatg aacctgccac 360
117 agtgccttgc tctcagggct gggagtacga ccactcagaa ttctcctcta ccattgcaac 420
119 tgagtgggat ctggtgtgtg agcagaaagg tctgaacaga gctgcgtcca ctttcttctt 480
121 cgccggtgtg ctggtggggg ctgtggcctt tggatatctg tccgacaggt ttgggcggcg 540
123 cgctctgtg ctggtagcct acgtgagtac cctggtgctg ggctggcat ctgcagctc 600
125 cgtcagctat gtaatgtttg ccatcaccgc cacccttact ggctcagccc tggctggttt 660
127 taccatcatc gtgatgccac tggagctgga gtggctggat gtggagcacc gcaccgtggc 720
129 tggagtcttg agcagcacct tctggacagg gggcgtgatg ctgctggcac tggttgggta 780
131 cctgatacgg gactggcgat ggcttctgct agctgtcacc ctgccttggt ccccaagcat 840
133 cctcagcctc tgggtgggtg ctgagtctgc acgtggctt ctgacccaag gccatgtgaa 900
135 agaggccac aggtacttgc tccactgtgc caggctcaat gggcgccag tgtgtgagga 960
137 cagcttcagc caggaggctg tgagcaaagt ggccgcccgg gaacgggtgg tccgaagacc 1020
139 ttcataccta gacctgttcc gcacaccacg gctccgacac atctcactgt gctgcgtggt 1080
141 ggtgtggttc ggagtgaact tctcctatta cggcctgagt ctggatgtgt cggggctggg 1140
143 gctgaacgtg taccagacac agctgttggt cggggctgtg gaactgccct ccaagctgct 1200
145 ggtctacttg tgggtgcgt acgcaggacg ccgctcagc caagccggga cactgctggg 1260
147 cagggccctg gcgttcggca ctgactgct agtgtcctcc gatatgaagt cctggagcac 1320
149 tgcctggca gtgatggga aagcttttct tgaagctgcc ttcaccactg cctacctgtt 1380
151 cacttcagag ttgtacccta cgggtgctcag acagacagg atggggctga ctgcactggt 1440
153 gggccggctg gggggctctt tggcccact ggcggccttg ctggatggag tgtggctgtc 1500
155 actgccaag cttacttatg ggggatcgc cctgctggct gccggcaccg cctcctgct 1560
157 gccagagacg aggcaggcac agctgccaga gaccatccag gacgtggaga gaaagagaga 1620
159 tgggtctaaa gaaaggacta gcatatgaga cttctggtac caatggggct ggtgggcatg 1680
161 ctgtccactg tgtggtgcta ggactgcaa tgccaggccc aagggacaaa agaacagag 1740
163 ctttttgttc tcatggtgtg ccctgctacc tccgaggcac cctgcagggc aatgcatgtc 1800
165 atcccaacc ccacactccc catcctccaa cccactggtc tcatgcccac agaagagttg 1860
167 aaggcatggg agccaacatt ttattgaaga agccacagag gctgaaattc aataaacaca 1920
169 agttttatga gtaaaaaaaaa aaaaaaaaaa
172 <210> SEQ ID NO: 3
173 <211> LENGTH: 2501
174 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

DATE: 12/27/2004

PATENT APPLICATION: US/10/721,298

TIME: 11:33:15

Input Set : A:\SequenceListing.txt

Output Set: N:\CRF4\12272004\J721298.raw

175 <213> ORGANISM: Homo sapiens

177 <400> SEQUENCE: 3

```

178 ctgcacctga agcatttggg ggggtgagcag catgggcttt gaggagctgc tggagcaggt      60
180 gggcggtctt gggcccttcc aactgcgga tgtggcactg ctggccctgc cccgagtgtc      120
182 gctaccactg cacttctctc tgcctatctt cctggctgccc gtgctgccc accgatgtgc      180
184 cctgcccggg gccctgcca acttcagcca tcaggatgtg tggctggagg cccatcttcc      240
186 ccgggagcct gatggcacgc tcagctcctg cctccgcttt gcctatcccc aggctctccc      300
188 caacaccacg ttggggggaag aaaggcagag ccgtggggag ctggaggatg aacctgccac      360
190 agtgccctgc tctcaggggt gggagtagca ccactcagaa ttctcctcta ccattgcaac      420
192 tgagtgggat ctggtgtgtg agcagaaagg tctgaacaga gctgcgtcca ctttcttctt      480
194 cgccggtgtg ctggtggggg ctgtggcctt tggatatctg tccgacaggt ttgggcggcg      540
196 gcgtctgtct ctggtagcct acgtgagtag cctgggtgctg ggctggcat ctgcagcctc      600
198 cgtcagctat gtaatgtttg ccatcaccgc cacccttact ggctcagccc tggctggttt      660
200 taccatcatc gtgatgccac tggagctgga gtggctggat gtggagcacc gcaccgtggc      720
202 tggagtctct agcagcacct tctggacagg gggcgtgatg ctgctggcac tgggtgggta      780
204 cctgatacgg gactggcgat ggcttctgct agctgtcacc ctgccttgtg cccaagcat      840
206 cctcagcctc tgggtgggtgc ctgagtctgc acgtggctt ctgaccaag gccatgtgaa      900
208 agaggccac aggtacttgc tccactgtgc caggctcaat gggcgccag tgtgtgagga      960
210 cagcttcagc caggaggtct tgagcaaagt ggccgcccgg gaacgggtgg tccgaagacc      1020
212 ttcataccta gacctgttcc gcacaccacg gctccgacac atctcactgt gctgcgtggt      1080
214 ggtgtggttc ggagtgaact tctcctatta cggcctgagt ctggatgtgt cggggctggg      1140
216 gctgaacgtg taccagacac agctgttgtt cggggtctgt gaactgccct ccaagctgct      1200
218 ggtctacttg tcggtgcgct acgcaggacg ccgctcacg caagccggga cactgctggg      1260
220 cagggccctg gcgttcggca ctagactgct agtgtcctcc gatatgaagt cctggagcac      1320
222 tgtcctggca gtgatgggga aagctttttc tgaagctgcc ttcaccactg cctacctgtt      1380
224 cacttcagag ttgtacccta cgggtgtcag acagacaggg atggggctga ctgcactggt      1440
226 gggcggtctg gggggctctt tggccccact ggccgcttgc ctggatggag tgtggctgtc      1500
228 actgcccagg cttacttatg gggggatcgc cctgctggct gccggcaccg ccctcctgct      1560
230 gccagagacg aggcaggcac agctgccaga gaccatccag gacgtggaga gaaagagtgc      1620
232 cccaaccagt ctcaggagg aagagatgcc catgaagcag gtccagaact aagtgggagt      1680
234 ggaggcaggc cctccacaga agctctgcag caggggctgg gagagcagaa gggcaggccc      1740
236 tgcaactcag gctgggagta tcgaacctc tgcctagggc cggagtgtgt gccagtacct      1800
238 gctccctctg ctcatccatc cttgattatt tggcttctag gaacagttga cttcccagaa      1860
240 tgcagtgggc tctgtggcac cctctcagc gttggggagg attctgtaaa taaagggtgcc      1920
242 ccttgggttg gggcaatggt gacgagctgt ggggaagagcc ctggatagga agccactgag      1980
244 tctgccctgg gctctgataa aaccttcacc attaacttgc tgtgtgacct tgggcatgtg      2040
246 gctttccctc tctggcctca gtctgttcat ctcccaaag gataatgaag cctcttggga      2100
248 ggccctacca taggatctgt tgccatgctc aaatgagtta ctgaataagg tgcttctgct      2160
250 tcttctagag atggtgctaa agaaaggact agcatatgag acttctggta ccaatggggc      2220
252 tgggtgggcat gctgtccact gtgtgggtgt aggactgcca atgccaggcc caagggacaa      2280
254 aaagaacaga gctttttgtt ctcatggctg gccctgctac ctccagggca ccctgcaggg      2340
256 caatgcatgt catcccaacc cccacactcc ccctcctcca acccactggt ctcatgccc      2400
258 aagaagagtt gaaggcatgg gagccaacat tttattgaag aagccacaga ggctgaaatt      2460
260 caataaacac aagttttatg agtaaaaaaa aaaaaaaaaa a                                     2501

```

263 <210> SEQ ID NO: 4

264 <211> LENGTH: 2121

265 <212> TYPE: DNA

266 <213> ORGANISM: Homo sapiens

268 <400> SEQUENCE: 4

RAW SEQUENCE LISTING

DATE: 12/27/2004

PATENT APPLICATION: US/10/721,298

TIME: 11:33:15

Input Set : A:\SequenceListing.txt

Output Set: N:\CRF4\12272004\J721298.raw

```

269 gcagggacct caactacact gatcaccagc cccatcggtat ccagaccocgg ccaccagtgc      60
271 catgaccttc tggagatcc tggaccgtgt gggagcatg ggccatttcc agttcctgca      120
273 tgtageccata ctgggcctcc cgatcctcaa catggccaac cacaacctgc tgcagatctt      180
275 cacagccgcc acccctgtcc accactgtcg cccgccccac aatgcctcca cagggccttg      240
277 ggtgctcccc atgggcccac atgggaagcc tgagaggtgc ctccgttttg tacatccgcc      300
279 caatgccagc ctgcccattg acaccagag ggccatggag ccattgcctgg atggctgggt      360
281 ctacaacagc accaaggact ccattgtgac agagtgggac ttggtgtgca actccaacaa      420
283 actgaaggag atggcccagt ctatcttcat ggcaggtata ctgattggag ggctcgtgct      480
285 tggagacctg tctgacaggt ttggccgcag gccatcctg acctgcagct acctgctgct      540
287 ggcagccagc ggctccggtg cagccttcag cccacacctc cccatctaca tggctctccg      600
289 ctctcctgtgt ggctttggca tctcaggcat taccctgagc accgtcatct tgaatgtgga      660
291 atgggtgctt acccggatgc gggccatcat gtcgacagca ctcggtact gctacacctt      720
293 tggccagttc attctgcccg gcctggccta cgccatcccc cagtggcgtt ggctgcagtt      780
295 aactgtgtcc attcccttct tcgtcttctt cctatcatcc tgggtggacac cagagtccat      840
297 acgtcgtgtg gtcttgtctg gaaagtcctc gaaggcctg aagatactcc ggcgggtggc      900
299 tgtcttcaat ggcaagaagg aagagggaga aaggctcagc ttggaggagc tcaaactcaa      960
301 cctgcagaag gagatctcct tggccaaggc caagtacacc gcaagtgacc tgttcaggat     1020
303 acccatgctg cgcgcgatga ccttctgtct ttccctggcc tggtttgeta ccggttttgc     1080
305 ctactatagt ttggctatgg gtgtggaaga atttggagtc aacctctaca tcctccagat     1140
307 catctttggt ggggtcgatg tcccagccaa gttcatcacc atcctctcct taagctacct     1200
309 gggccggcat accactcagg ccgtgcctc gtcctgggca ggaggggcca tcttggtctc     1260
311 cacttttgtg cccttgact tgcagaccgt gaggacagta ttggtgtgt ttgggaaggg     1320
313 atgcctatcc agtccttca gctgcctctt cctctacaca agtgaattat accccacagt     1380
315 catcaggcaa acaggtatgg gcgtaagtaa cctgtggacc cgcgtgggaa gcatggtgtc     1440
317 cccgtcgttg aaaatcacgg gtgaggtaca gcccttcata cccaatatca tctacgggat     1500
319 caccgccctc ctcgggggca gtgctgcctt ctctctgctt gagaccctga atcagccctt     1560
321 gccagagact atcgaagacc tggaaaactg gtccctgcgg gcaaagaagc caaagcagga     1620
323 gccagaggtg gaaaaggcct cccagaggat cctctacag cctcacggac caggcctggg     1680
325 ctccagctga ggacaacgga acccccttct cctgcctccc agagactgat cctagccagg     1740
327 caccttagga gtataggag gccccatata ggtccatcct cctaggatga agccttctga     1800
329 gagcttggtg aaggtgtctc catcaccacc accagagcct cctgcccagc cctggccagt     1860
331 tcaaagggtc aagccatccc tgcccttgtt ctccctgcaa cccaagccct gccattcttc     1920
333 tgtctagccc ttcccactg gccaaattcc cccactgtcc cggctcctct cccctgaggt     1980
335 cccctgatat cccttggtc agtcctaaca agactgagtc ttaacaagat gagaagtcct     2040
337 ccccttcttg cctcccacac ttttctttga tgggaggttt caataaacag cgataagaac     2100
339 tctaaaaaaaa aaaaaaaaaa a                                     2121

```

342 <210> SEQ ID NO: 5

343 <211> LENGTH: 1977

344 <212> TYPE: DNA

345 <213> ORGANISM: Homo sapiens

347 <400> SEQUENCE: 5

```

348 caaattatatt cttacgtgac tttagagaaa acggtacct atctgacccc aaaacgactt      60
350 gaggaaactg tttccacggc cctgctgcag gggggaagca cagtcgtcaa gaagagagtg      120
352 gggtcaggat caaaacacat ttagtgtgac ttagggaaag aaaacatttt cctcttttga      180
354 acctctctgg atacagtcac tttgctcta cttgaggatc aactgttcaa cctcaatggc      240
356 ctttcaggac ctccctgggtc acgtcgttga cctgtggaga ttccagatcc ttcagactgt      300
358 ttttctctca atctttgctg ttgtacata ccttcatttt atgctggaga acttcactgc      360
360 attcatacct ggccatcgct gctgggtcca catcctggac aatgacactg tctctgacaa      420
362 tgacactggg gccctcagcc aagatgcact cttgagaatc tccatcccac tggactcaaa      480

```

RAW SEQUENCE LISTING

DATE: 12/27/2004

PATENT APPLICATION: US/10/721,298

TIME: 11:33:15

Input Set : A:\SequenceListing.txt

Output Set: N:\CRF4\12272004\J721298.raw

```

364 catgaggcca gagaagtgtc gtcgctttgt tcacctcag tggcagctcc ttcacctgaa 540
366 tgggaccttc cccaacacaa gtgacgcaga catggagccc tgtgtggatg gctgggtgta 600
368 tgacagaatc tccttctcat ccaccatcgg tgacctgaag tgggatctgg tatgtgactc 660
370 tcaatcactg acttcagtgg ctaaatttgt attcatggct ggaatgatgt tgggaggcat 720
372 cttaggcggt catttatcag acaggtttgg gagaagtttc gtgctcagat ggtgttacct 780
374 ccaggttgcc attgttggca cttgtgcagc gttggctccc actttcctca ttactgtctc 840
376 agtacgcttc ttgtctggga ttgtgcaat gagcttcata acaataacta ttatgttaat 900
378 agccgagtgg gcaacacaca gattccaggc catgggaatt acattgggaa tgtgcccttc 960
380 tggatttgca tttatgacct tggcaggcct ggcttttgcc attcgagact ggcatatcct 1020
382 ccagctgggtg gtgtctgtac catactttgt gatctttctg acctcaagtt ggctgctaga 1080
384 gtctgctcgg tggctcatta tcaacaataa accagaggaa ggcttaaagg aacttagaaa 1140
386 agctgcacac aggagtggaa tgaagaatgc cagagacacc ctaaccctgg agattttgaa 1200
388 atccaccatg aaaaaagaac tggaggcagc acaaaaaaaaa aaacctctc tgtgtgaaat 1260
390 gctccacatg cccaacatat gtaaaaggat ctccctcctg tcctttacga gatttgcaaa 1320
392 ctttatggcc tattttggcc ttaatctcca tgtccagcat ctggggaaca atgttttct 1380
394 gttgcagact ctctttggtg cagtcacct cctggccaac tgtgttgca cttgggcact 1440
396 gaaatacatg aaccgtcgag caagccagat gcttctcatg ttcctactgg caatctgct 1500
398 tctggccatc atatttgtgc cacaagaaat gcagacgctg cgtgaggttt tggcaacct 1560
400 gggcttagga ggtctgtctc ttgccaatc ccttgctttt gcccatggaa atgaagtaat 1620
402 tcccaccata atcaggggcaa gagctatggg gatcaatgca accttgcta atatagcagg 1680
404 agccctggct cccctcatga tgatcctaag tgtgtattct ccaccctgc cctggatcag 1740
406 ctatggagtc tccccctca tctctggctt tgctttcctc ctcttctctg aaaccaggaa 1800
408 caagcctctg tttgacacca tccaggatga gaaaaatgag agaaaagacc ccagagaacc 1860
410 aaagcaagag gatccgagag tggaaagtgc gcagttttaa ggaattccag gagctgactg 1920
412 ccgatcaatg agccagatga agggaacaat caggactatt cctagacact agcaaaa 1977
415 <210> SEQ ID NO: 6
416 <211> LENGTH: 2684
417 <212> TYPE: DNA
418 <213> ORGANISM: Homo sapiens
420 <400> SEQUENCE: 6
421 ctctgatag caaaagaact gaggaagctc ttccactac ggctgtattg cactgggtgag 60
423 tccgggcccc tggatgagaa attgatgcga ggatcaatac aagcttaatt tgaattaata 120
425 aaaggaaata ttttctccct ttgaacttat ctccgtaaag ccattgtgcc tcctcttggg 180
427 ggtcacgtgt tcacaatcaa tggcctttga ggagctcttg agtcaagttg gaggccttgg 240
429 gagatttcag atgcttcac tcgtttttat tcttccctct ctcatgttat taatccctca 300
431 tatactgcta gagaactttg ctgcagccat tcctggatcat cgttgctggg tccacatgct 360
433 ggacaataat actggatctg gtaatgaaac tggaatcctc agtgaagatg cctcttgag 420
435 aatctctatc ccactagact caaatctgag gccagagaag tgtcgctcgt ttgtccatcc 480
437 ccagtggcag cttcttcacc tgaatgggac tatccacagc acaagtgagg cagacacaga 540
439 accctgtgtg gatggctggg tatatgatca aagctacttc ccttcgacca ttgtgactaa 600
441 gtgggacctg gtatgtgatt atcagtcact gaaatcagtg gttcaattcc tacttctgac 660
443 tggaaatgctg gtgggaggca tcataggtgg ccagtctca gacaggtttg ggcgaagatt 720
445 tattctcaga tgggtgttgc tccagcttgc cactactgac acctgcgctg ccttcgctcc 780
447 caccttccct gtttactgtg tactacgctt cttggcaggt ttttcttcca tgatcattat 840
449 atcaaataat tctttgcccc ttactgagt gataaggccc aactctaaag cctggtagt 900
451 aatattgtca tctgggtgccc ttagtattgg acagataatc ctgggagggt tggcttatgt 960
453 cttccgagac tggcaaacc tgcacgtggt ggcgtcagta cctttccttg gcctccttct 1020
455 ccttcaaagg tggctgggtg aatctgctcg gtggttgata atcaccaata aactagatga 1080
457 gggcttaaag gcacttagaa aagttgcacg cacaatgga ataaagaatg ctgaagaaac 1140

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/721,298

DATE: 12/27/2004

TIME: 11:33:16

Input Set : A:\SequenceListing.txt

Output Set: N:\CRF4\12272004\J721298.raw